

Traditional Staples



Barriers

- Stigma
- Loss of Traditional Knowledge
- Maize-based focus (Gov., NGOs, Aid, etc.)
- Loss of Ecosystems and Genetic Seed Stock
- Current Environmental Practices

Burning:



Organic Matter
Destroyed.

Decreased
Fertility.





Over-Sweeping:
Uses lots of Energy
Destroys structures
Destroys soil



Hard Pan

“Hard Pan” is caused by exposing dirt to the sun, over-sweeping, and walking on your soil.

Hard pan causes:

- ✓ Runoff
- ✓ Erosion
- ✓ Flooding
- ✓ Nutrient Loss
- ✓ Dry wells



Results of Poor Water Management:

Destruction

Waste washing
downstream:

(Cholera, Typhoid,
Agro-chemicals)





What is Permaculture?



Permanent + Culture

Permaculture is the design of systems that have the diversity, stability, and resilience of natural ecosystems

In the beginning...

**A typical over-swept yard...
no organic matter and even less food!**



Thoughtful planning instead of thoughtless labour

Design includes:

- ▶ People's needs
- ▶ Soil conditions
- ▶ Water sources
- ▶ Sun
- ▶ Shade
- ▶ Wind
- ▶ Plant growth



What is a "Guild"?

Various parts working together – 7 parts:

➤ **Us: Food, medicine, supplies**

➤ **Soil: Food for the soil**

➤ **Soil: Miners/Diggers**

➤ **Soil: Ground covers**

➤ **Space: Climbers**

➤ **Space: Supporters**

➤ **Protectors**